

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-718-A
Relating to Certification of New Motor Vehicles

GENERAL MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1996 model-year General Motors Corporation exhaust emission control systems are certified as described below for light-duty trucks:

Fuel Type: Gasoline

Engine Family: TGM2.218GFEK Displacement: 2.2 Liters (134 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Exhaust Gas Recirculation
Three Way Catalytic Converter
Oxygen Sensor
Heated Oxygen Sensor
Sequential Multiport Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The certification exhaust emission standards for this engine family in grams per mile are:

<u>Loaded Vehicle</u> <u>Weight(lbs.)</u>	<u>Miles</u>	<u>Non-Methane</u> <u>Hydrocarbons</u>	<u>Carbon</u> <u>Monoxide</u>	<u>Nitrogen</u> <u>Oxides</u>	<u>Carbon</u> <u>Monoxide (20°F)</u>
0-3750	50,000	0.25	3.4	0.4	10.0
	100,000	0.31	4.2	0.6	n/a

The certification exhaust emission values for this engine family in grams per mile are:

<u>Loaded Vehicle</u> <u>Weight(lbs.)</u>	<u>Miles</u>	<u>Non-Methane</u> <u>Hydrocarbons</u>	<u>Carbon</u> <u>Monoxide</u>	<u>Nitrogen</u> <u>Oxides</u>	<u>Carbon</u> <u>Monoxide (20°F)</u>
0-3750	50,000	0.11	2.1	0.3	7.8
	100,000	0.17	2.8	0.4	n/a

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average non-methane organic gas (NMOG) exhaust mass emission requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles", and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 11th day of September 1995.

A handwritten signature in black ink, appearing to read "R. B. Summerfield", is written over the typed name and title.

R. B. Summerfield
Assistant Division Chief
Mobile Source Division

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
LIGHT DUTY TRUCKS AND MEDIUM DUTY VEHICLES

Example, Pattern A: CC10703+E62

Example, Pattern B: 1UM05

Digit 1 = Marketing DivisionPattern AC = Chevrolet
T = GMC
H = Oldsmobile
G = IsuzuPattern B1 = Chevrolet
2 = Pontiac
3 = Oldsmobile

Note: Digit 1 is not used for Pattern A models on engine family pages or California Supplemental Data Sheets.

Digit 2 = Chassis Type (all)U = Conventional 4x2 Front Wheel Drive
C, S, M = Conventional 4x2 Rear Wheel Drive
G = Forward Control 4x2 Rear Wheel Drive
K, T, L = Conventional 4x4 Four Wheel Drive, All Wheel DriveDigit 3 = Series/GVWRPattern A1 = 11,15,1500/3500-7300
2 = 21,25,2500/6400-8600
3 = 31,35,3500/7100-14500Pattern B

Letter code designates trim level rather than series/GVWR.

Digits 4 & 5Pattern A = Dimensional Grouping05 = Blazer, Jimmy, Bravada
06 = S/T Short Box
07 = C/K Short Box
08 = S/T Long Box & Cab-Chassis
09 = C/K Long Box, Suburban,
10 = M/L Long Body
14 = G Short Wheelbase
17 = G Long WheelbasePattern B05 = Cargo (APV)
06 = Passenger (Lumina APV, Trans Sport, Silhouette)Digits 6 & 7 = Body/Cab Codes (Pattern A Only)03 = Conventional Cab, Cab-Chassis
05 = Cargo Van
06 = Passenger Van, 4 Door Special Purpose Vehicle
16 = 2 Door Special Purpose Vehicle
43 = Crew Cab
53 = Extended CabPickup Body Codes (Optional, Used with Pattern A Only)+E62 = Stepside, Fenderside
+E63 = Fleetside, Wideside
+ZW9 = Cab-Chassis

ISSUED: ML-TP053

REVISED: ML-TR025A

17-TGM2.218GFEK-1

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: TGM2.218GFEK

EVAP STD: 50K___ USEFUL LIFE WITH R/L_X

EVAPORATIVE FAMILY: TGM1089AYMEA

EXH STD: TIER-0___ TIER-1_X TLEV___ LEV___ ULEV___ ZEV___; EPA TIER-0___ TIER-1_X

VEH CLASS(ES): PC___ LDT1_X LDT2___ MDV1___ MDV2___ MDV3___ MDV4___ MDV5___

SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY: NA

EXH CERT FUEL(S): INDO___ PH2_X DIESEL: 13 CCR 2282___ OR 40 CFR 86.113-90___

OR -94___ M85___ CNG___ LPG___ OTHER (SPECIFY)___

FUEL TYPE(S): DEDICATED_X FLEX-FUEL___ DUAL-FUEL___ GASOLINE_X DIESEL___ M85___

CNG___ LNG___ LPG___ OTHER (SPECIFY)___

HYBRID: TYPE A___ B___ C___ APU CYCLE (E.G., OTTO, DIESEL, TURBINE): NA

ENGINE CONFIGURATION: I4 DISPLACEMENT: 2.2 LITERS 134 CUBIC INCHES

ENGINE: FRONT_X MID___ REAR___ DRIVE: FWD___ RWD_X 4WD-FT___ 4WD-PT___

EXHAUST EMISSION CONTROL SYSTEM & COMPONENTS: TWC, EGR, O2S, HO2S, SFI

RLHP/DPA: SECTION 08.13.02.00

(LOC) ENG CODE (NW)	VEH MODELS (SEE PAGE 1)	TRANS TYPE: A-AUTO M-MAN	EQUIV. TEST WEIGHT	IGN SYSTEM (PCME/PROM) PART NO./CALIB	EGR SYSTEM PART NO.	CATALYST PART NO.
1A	S10603+E62 S10603+E63 S10803+E63 S10653+E62 S10653+E63	A	3375 3500 3625	16215830/16231093	17096100, 17096306	25152988
1B				16215830/16234333		
1C				16215830/16235293		
2A	S10603+E62 S10603+E63 S10803+E63 S10653+E62 S10653+E63		3375 3500	16215830/16231093		
2B				16215830/16234333		
2C				16215830/16235293		

CARLINE NAME
S10 PICKUP 2WD
SONOMA 2WD

CARLINE CODE
55082
80072

ISSUED: ML-TP053

REVISED: ML-TR025A, ML-TR048, ML-TP141, ML-TR056, ML-TR056A

17-TGM2.218GFEK-2

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: TGM2.218GF EK
 EVAP STD: 50K___ USEFUL LIFE WITH R/L_X EVAPORATIVE FAMILY: TGM1089AYMEA
 EXH STD: TIER-0___ TIER-1_X TLEV___ LEV___ ULEV___ ZEV___; EPA TIER-0___ TIER-1_X
 VEH CLASS(ES): PC___ LDT1_X LDT2___ MDV1___ MDV2___ MDV3___ MDV4___ MDV5___
 SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY: NA
 EXH CERT FUEL(S): INDO___ PH2_X DIESEL: 13 CCR 2282___ OR 40 CFR 86.113-90___
 OR -94___ M85___ CNG___ LPG___ OTHER (SPECIFY)_____
 FUEL TYPE(S): DEDICATED_X FLEX-FUEL___ DUAL-FUEL___ GASOLINE_X DIESEL___ M85___
 CNG___ LNG___ LPG___ OTHER (SPECIFY)_____
 HYBRID: TYPE A___ B___ C___ APU CYCLE (E.G., OTTO, DIESEL, TURBINE): NA
 ENGINE CONFIGURATION: I4 DISPLACEMENT: 2.2 LITERS 134 CUBIC INCHES
 ENGINE: FRONT_X MID___ REAR___ DRIVE: FWD___ RWD_X 4WD-FT___ 4WD-PT___
 EXHAUST EMISSION CONTROL SYSTEM & COMPONENTS: TWC, EGR, O2S, HO2S, SFI

RLHP/DPA: SECTION 08.13.02.00

(LOC) ENG CODE (NW)	VEH MODELS (SEE PAGE 1)	TRANS TYPE: A-AUTO M-MAN	EQUIV. TEST WEIGHT	IGN SYSTEM (PCME/PROM) PART NO./CALIB	EGR SYSTEM PART NO.	CATALYST PART NO.
	JS10603+E63 S10603+E63 S10603+E62 S10803+E63	M	3375	16215830/16231063	17096100, 17096306	25152988
3B				16215830/16234293		
3C				16215830/16235253		
4A	S10603+E62 JS10603+E63 S10603+E62 S10803+E63		3250 3375	16215830/16231063		
4B				16215830/16234293		
4C				16215830/16235253		

CARLINE NAME	CARLINE CODE
S10 PICKUP 2WD	55082
SONOMA 2WD	80072
HOMBRE 2WD	82500

ISSUED: ML-TP053

REVISED: ML-TR025A, ML-TR048, ML-TP141, ML-TR056

17-TGM2.218GF EK-3

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: TGM2.218GFEK
 EVAP STD: 50K___ USEFUL LIFE WITH R/L___X EVAPORATIVE FAMILY: TGM1089AYMEA
 EXH STD: TIER-0___ TIER-1___X TLEV___ LEV___ ULEV___ ZEV___; EPA TIER-0___ TIER-1___X
 VEH CLASS(ES): PC___ LDT1___X LDT2___ MDV1___ MDV2___ MDV3___ MDV4___ MDV5___
 SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY: NA
 EXH CERT FUEL(S): INDO___ PH2___X DIESEL: 13 CCR 2282___ OR 40 CFR 86.113-90___
 OR -94___ M85___ CNG___ LPG___ OTHER (SPECIFY)_____
 FUEL TYPE(S): DEDICATED___X FLEX-FUEL___ DUAL-FUEL___ GASOLINE___X DIESEL___ M85___
 CNG___ LNG___ LPG___ OTHER (SPECIFY)_____
 HYBRID: TYPE A___ B___ C___ APU CYCLE (E.G., OTTO, DIESEL, TURBINE): NA
 ENGINE CONFIGURATION: I4 DISPLACEMENT: 2.2 LITERS 134 CUBIC INCHES
 ENGINE: FRONT___X MID___ REAR___ DRIVE: FWD___ RWD___X 4WD-FT___ 4WD-PT___
 EXHAUST EMISSION CONTROL SYSTEM & COMPONENTS: TWC, EGR, O2S, HO2S, SFI

RLHP/DPA: SECTION 08.13.02.00

(LOC) ENG CODE (NW)	VEH MODELS (SEE PAGE 1)	TRANS TYPE: A-AUTO M-MAN	EQUIV. TEST WEIGHT	IGN SYSTEM (PCME/PROM) PART NO./CALIB	EGR SYSTEM PART NO.	CATALYST PART NO.
5A	S10653+E63 S10653+E63 S10803+E63	M	3500	16215830/16231073	17096100, 17096306	25152988
5B.6B				16215830/16234303		
5C				16215830/16235263		

CARLINE NAME	CARLINE CODE
S10 PICKUP 2WD	55082
SONOMA 2WD	80072

ISSUED: ML-TP053

REVISED: ML-TR025A, ML-TR048, ML-TP141, ML-TR056

17-TGM2.218GFEK-4